RFP-1325.02 (REV. 10/97)
Previously RF-46522

CORRES. CONTROL
INCOMING LTR NO.

01854 RF 97

DUE DATE

ACTION

Department of Energy

ROCKY FLATS FIELD OFFICE
P.O. BOX 928
GOLDEN, COLORADO 80402-0928

DEC 9 1997

97-DOE-05456

RFETS-CC-

DEC 97 2:

DIST.	LTR	ENC
BACON, R.F.		
BENSUSSEN, S.J.		
BORMOLINI, A.M.		
BRAILSFORD, M.D		
BURDGE, I.		
CARD, R.G.		
COSGROVE, M. M.		
COULTER, W.L.		
CRAWFORD, A.C.		
DERBY, S.		
DIETERLE, S.E.		
FERRERA, D.W.		
FERRERA, K.P.		
GERMAIN, A.L.		
HARDING, W.A.		
HARROUN, W.P.		
HEDAHL, T.G.		
HERRING, C.L.		
HILL, J.A.		
MARTINEZ, L.A.		
NORTH, K.		
PARKER, A.		
PHILLIPS, F.J.	X	X
RHOADES, D.W.		
RUSCITTO, D.G.		
SANDLIN, N.B.		
SPEARS, M.S.		
TILLER, R. E.		
TUOR, N.R.		
VOORHEIS, G.M.		
Shelton, D	X	X
Evans, B	X	X
Dorr, K	X	

COR. CONTROL	X	X
ADMN. RECORD	X	X
PATS/T130G		

Reviewed for Addressee
Corres. Control RFP

12/10/97 DK
Date By

Ref Ltr. #

DOE ORDER #

Mr. Steve Tarlton
RFCA Project Coordinator
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80222-1530

Dear Mr. Tarlton:

Enclosed is the Asbestos Abatement Plan for Building 123. In your letter to William Fitch, dated Ausust 25, 1997, you requested a copy of this plan be submitted one week prior to implementation.

If you have any questions, please call William Fitch at 966-4013.

Sincerely,

Steven W. Slaten
RFCA Project Coordinator

Enclosure

cc w/Enc:
T. Rehder, EPA
T. Howell, OCC, RFFO
E. Bryson, TAD, RFFO
S. Tower, AI, RFFO
D. Shelton, K-H
B. Evans, K-H
Administrative Record

cc w/o Enc:
J. Legare, AMEC, RFFO
R. April, RLG, RFFO
G. Hill, AMEC, RFFO
R. Tyler, ER/WM, RFFO
F. Gerdeman, PCD, RFFO
W. Fitch, ER/WM, RFFO
K. Dorr, K-H

Submittal 02082-1.05.E

ASBESTOS ABATEMENT PLAN
FOR THE
BUILDING 123 DECOMMISSIONING PROJECT

PREPARED BY:
Asbestos Free Insulation Contracting, Inc.

APPROVED BY:

12/4/1997
Independent Air Monitoring/Abatement Oversight Professional for RMRS

December 1, 1997

1997

ROCKY FLATS BUILDING # 123

ASBESTOS ABATEMENT PLAN — CLASS I WORK PROCEDURES

ASBESTOS ABATEMENT PLAN: Requirements described in Appendix F 29 CFR 1926.1101, and 29 CFR 1910 Work practices and Engineering Controls for Major Asbestos Removal, Renovation, and Demolition Operations are considered mandatory for the purposes of this specification. All work to be in strict compliance with all Federal, State and local regulation's. All work to comply with RFETS contract documents. Specific project plans are as follows;

1. PHYSICAL DESCRIPTION OF THE WORK AREA:

Asbestos Removal Building # 123 is a one story building consisting of approximately 19,000 s/f.

SCOPE: A general description of the types of ACM requiring removal is listed below. Refer to the asbestos Characterization report, revision 1, for locations and estimated quantities of these materials.

a. Drywall tape and joint compound.
b. Floor tile.
c. Cementious walls, excluding the transite panels above the exterior windows.
d. Pipe insulation for steam, condensate, domestic cold water, and domestic hot water.
e. HVAC fan coil unit on roof approximately 100 s/f.

Approximately s/f of above items; a. 4,000 s/f – b.10,500 s/f - c. 14,000 s/f - d. 900 lin.ft. the 900 lin. ft. has fiberglass included.

2. SCHEDULE FOR TURNING OFF AND SEALING EXISTING VENTILATION SYSTEMS:

Upon mobilization at site all ventilation systems are to be shut down, before work commences. All vents in affected work area's will be covered with 2 layers of 6-mill poly taped/secured in place. In addition, as required by regulations, ductwork will be covered with two (2) layers of poly and sealed.

3. PERSONNEL HYGINE PROCEDURES:

Work practices will include standard housekeeping and site maintenance procedures. Equipment not necessary to current procedures will be removed from work areas. Methods will be used to reduce asbestos exposures to personnel. Specific item's included in those practices are use wet methods to control dust, care and proper control

of PPE items. HEPA fans and HEPA vacuums will be used in engineering controls for personnel protection. Also shower units, for decontamination will be used.
In addition, personnel will remain up stream of HEPA fans whenever possible. Suits worn by personnel will be HEPA vacuumed off before being removed and put into barrels or ACM marked bags as ACM containing products for safety.

4. LABELING PROCEDURES:

Provide warning signs at each entrance to work area reading as follows:

Legend	Notation
DANGER ASBESTOS AREA CANCER AND LUNG DISEASE HAZARD	3 inch (77mm) Sans Serif Gothic or Block
Authorized Personnel Only	1 inch (25.4 mm) Sans Serif Gothic or Block
respirators and protective clothing	1 inch (25.4 mm) Sans Serif Gothic or Block
are required in this area	1 inch (25.4 mm) Sans Serif Gothic or Block
Breathing Asbestos Dust May Be Hazardous To Your Health	14 point Gothic

MATERIALS:

a. Disposal bags: Provide 6 mil (0.15mm) thick lead-tight polyethylene bags labeled with three labels with text as follows:

1. First label: Provide in accordance with 29 CFR 1910.1200(f) of OSHA's hazard communication standard:

DANGER
CONTAINS ASBESTOS FIBERS
CANCER AND LUNG DISEASE HAZARD
BREATHING AIRBORNE FIBERS IS
HAZARDOUS TO YOUR HEALTH

2. Second label: Provide in accordance with U.S. Department of Transportation regulation on hazardous waste marking. 49 CFR parts 171 and 172. Hazardous Substances.

RQ-ASBESTOS WASTE
CLASS 9
NA2212-PG III

3. third label: Provide the name of the waste generator (Owner's name), the location from which the waste was generated and the names and addresses of the contractor and transporter. This label must be durable, able to repel dirt and moisture (e.g., permanent marker). Label must be placed directly on disposal bag(s) in al legible format.

5. DESCRIPTION OF PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING TO BE WORN BY EMPLOYEES:

All workers will wear a zippered coverall either polyethylene or tyvex with hood and boots attached. Footwear will consist of steel toe boots. Safety glasses with side shields, or full face negative pressure respirators, hard hat, with four point suspension. Gloves will be provided either rubber, leather or cloth. The respirators will be North brand ½ face with HEPA filters NIOSH approved, or full face negative pressure North Brand, or MSA or other approved respirator per 29 CFR 1910.134 and OSHA requirements.

6. DESCRIPTION OF THE LOCAL EXHAUST SYSTEM VENTILATION SYSTEMS TO BE USED:

Provide local exhaust ventilation systems that comply with ANSI Z 9.2.
All HEPA fans used will comply. The HEPA fan, 2000 cfm rated, with variable speed for air flow control will be attached to area's and exhausted outside where feasible. The negative air HEPA fan will be used in area to assist in engineering controls and safety of area around the asbestos containment.

7. DESCRIPTION OF WORK PRACTICES TO BE OBSERVED BY EMPLOYEES:

Building # 123 phase II , is considered Class I and II ACM except for the piping which is outside the building this will be removed as friable, Category I, with glove bag method per Colorado Regulation NO 8. Procedures. This project involves training received from requirements in 29 CFR 1926.1910, 29 CFR 1926.1101 and 29 CFR 1910.134. AHERA training and State of Colorado Regulation No. 8. which covers the handling and removal of asbestos. This also includes Hazard Communication training. and any additional training required by Rocky Flats.

The building will be completed by setting the containment in two phases approximately on half of building at a time. The first half of building will be the East and the second will be the West section, approximately on half each. See attached sketch in submittals. Some work needs to be completed early for demolition needs. This will be addressed in Class II work procedures, and this will include any RAD II work involved in building # 123 at Rocky Flats.

A. The following procedures are for asbestos, Items a,b,c,d, & e. Building # 123 will have HEPA fans running in area. Shower unit will be put in place (see sketch). Before start of the following, pre-cleaning of area will be done. A.F.I.C. will shut down and seal all vents in the work area's, one layer of 6-mill polyethylene, "criticalls" on door ways or openings, Two layers of poly on vents and ductwork as required by regulations. The walls (not to be abated) will have 2- layers of 6-mill poly. The floors (not to be abated) will have 2-layers of 6-mill poly. The ceiling will be per variance requested and approved in permit.

When negative air has been approved,(see drawings, calculations are shown), and manometer shows .02 or more to area, smoke test, shower and bag-out attached to area, a visual inspection by required authority, will approve the commencement of asbestos abatement. Work methods will be accomplished using wet method, and hand tools, all work will be accomplished with minimum amount of disturbance to asbestos required to remove asbestos. Drop cloths (polyethylene) will be used as required.

Negative air calculations for Building # 123 at Rocky Flats:
Total ft3/min (load) = $\frac{\text{(volume of work area in ft3) (air changes/hour)}}{\text{60 min/hour}}$
HEPA fans rated at 2000 cfm. Use 1650 cfm for calculations.
Calculations for East & West containment's are as follows, based on 19,000 s/f building.
EAST: 9,500s/f x 14' = 133,000 cu. ft. @ 1650 = 80.61 @ 15 = 5.37 units per set up.
WEST: 9,500 s/f x 14' = 133,000 cu. ft. @ 1650 = 80.61 @ 15 = 5.37 units per set up.
Use six (6) each 2000 cfm rated HEPA fans on each containment.

Entry and exit of work area;
The following procedures shall be used for workplace entry and exit unless there is an emergency situation immediately dangerous to life or health:
(A) All personnel and authorized visitors shall enter and exit the work area through the worker decontamination unit and not the waste load-out.
(B) All personnel shall don disposable coveralls, head covering and foot covering prior to entering the work area.
(C) Before leaving the work area, all personnel shall remove gross contamination from the outside of respirators and dispose of protective clothing in containers labeled for disposal in accordance with subparagraph III.C.8.b. (labeling). Personnel shall proceed to the shower area and then shower and shampoo to remove residual asbestos contamination. After showering, personnel shall proceed to the clean room.

Item e.from scope. The area affected by this procedure is the duct work on the roof. This duct will be removed by "component removal method". The duct can be wrapped with 2-layers of 6-mill poly, cut loose from roof/duct and removed intact.
A shower unit will be on site.

8. SPECIFIC TYPE OF REMOVAL METHODS TO BE USED IN THE AFFECTED BUILDING TO REMOVE THE ASBESTOS CONTAINING MATERIAL.

See: Item no. 5.
See: Item no. 7.

9. DESCRIPTION OF THE SEALANT TO BE USED AT THE END OF THE PROJECT.

A.F.I.C. uses EN-100 lock-down encapsulant made by ENVIROCOAT it is clear and non toxic, dries to touch in two (2) hours and has no flash point.
See attached MSDS sheet.

10. AIR MONITORING PLANS:

Reference specification 02082 and attached information from Phase Con Environmental Services Inc.

11. LOCATION OF THE BARRIERS AND TYPES OF MATERIALS:

The barriers for all primary and secondary containment's will consist of existing walls and ceilings and procedures described in item 7. Any containment requiring additional support will use 2 x 4 wood. All poly will be adhered with high quality (357 Nashaua) duct tape, and staples as required. Locations of work are shown on the attached building sketch. See attached project design plan.

12. HYGINE FACILITY LAYOUT:

Building # 123 Phase II :
See attached sketch of shower unit and location.

13. VENTILATION SYSTEM LAYOUT AND CONTROL AREAS:

A.F.I.C. will use HEPA filtered negative air machines in work area. See item # 6.
The HEPA fans will be placed in each work area to provide additional engineering control of asbestos abatement, and exhaust will be to outside where feasible.
Reference attached design information.

14. EMERGENCY EXITS FOR THE REGULATED WORK AREA (USE OF FLOOR PLANS OR DIAGRAMS IS RECOMMENDED):

On this project personnel will be advised of exit locations at start of project and at the daily safety meetings. **See attached sketch** of work area for exit door locations. In the event of a extreme emergency, personnel will use windows, which are located throughout the building to exit the building. Florescent arrows will be painted on walls showing exit locations, at 3' height.

15. THE SCHEDULE FOR THE ENTIRE ASBESTOS ABATEMENT PROJECT:
Scheduled time frame is approximately seventy days not allowing for additional changes to contract. Start date is contingent on other phases of work.

16. WASTE HANDLING PLAN:
Section 01610 material handling and waste disposal
01611 requirements will be followed.
A.F.I.C. will keep all asbestos containing materials wet, put in double 6-mill asbestos marked polyethylene bags taken to roll off unit provided by RFETS. The unit will be lined with one layer of six mill poly for transport. The asbestos will be transported from building by way of hand carts to the asbestos dumptster located as close to building as feasible.
Roll-off's will have either a 20 cubic yard or 30 cubic yard capacity. Provided by RFETS.
All personnel handling transport of asbestos bags will be required to wear full body protective clothing, and a minimum of ½ mask respirators with required asbestos filters.
See item 4. For labeling procedures for asbestos.

RADIOLOGICALLY CONTAMINATED WASTE (LOW LEVEL WASTE):
Low level wastes are those with 100nCi/gram alpha-emitting transuranic nuclides.

The subcontractor shall package low level asbestos waste separately from low level non-asbestos waste.
All low level waste shall be size reduced to fit into 2'x4'x7' wooden crates (a standard waste box). The subcontractor shall pack waste crates so that there is less than 10% void space, and so that the gross weight does not exceed 4,500 pounds.

All workers shall be trained per RFETS and all work procedures shall be in compliance with RFETS.

1997

ROCKY FLATS BUILDING # 123

ASBESTOS ABATEMENT PLAN – CLASS II WORK PROCEDURES

ASBESTOS ABATEMENT PLAN: Requirements described in Appendix F 29 CFR 1926.1101, and 29 CFR 1910 Work practices and Engineering Controls for Major Asbestos Removal, Renovation, and Demolition Operations are considered mandatory for the purposes of this specification. Specific project plans are as follows;
RAD II work is included in this phase.

1. PHYSICAL DESCRIPTION OF THE WORK AREA:

Asbestos Removal Building # 123 is a one story building consisting of approximately 19,000 s/f.
Scope of work;

1a. Radioactively contaminated floor tiles in room 109 and 109b [approx. 375 s/f].
2a. The counter top and asbestos containing mastic in room 156.
3a. The cementitous cabinet linings in rooms 103a, 105, 125,157,123,127,and156.
4a. Cementitous panel boards in the hoods in rooms 125, 127, and 157.
5a. Asbestos insulation on the outdoor section of steam condensate line.
6a. Asbestos duct insulation on the roof. See class I procedures.
7a. Asbestos containing ceiling tiles [2-each]. Not in scope defined as non ACM.
8a. Carpeting in building (non ACM) approximately 4,000 s/f.
9a. Doorways and 4' opening beside doorway (transite wall) four (4) each.
The rooms (doorways) are; # 105, 103 103a and 112.
10a. Cementitous panels on outside of building approximately 1000 s/f.

2. SCHEDULE FOR TURNING OFF AND SEALING EXISTING VENTILATION SYSTEMS:

Upon mobilization at site all ventilation systems are to be shut down, before work commences. All vents in affected work area's will be covered with 2 layers of 6-mill poly taped/secured in place.

3. PERSONNEL HYGINE PROCEDURES:

Work practices will include standard housekeeping and site maintenance procedures. Equipment not necessary to current procedures will be removed from work areas. Methods will be used to reduce asbestos exposures to personnel. Specific items included in those practices are use wet methods to control dust, care and proper control of PPE items. HEPA fans and HEPA vacuums will be used in engineering controls for personnel protection. In addition, personnel will remain up stream of HEPA fans whenever possible. Suits worn by personnel will be HEPA vacuumed off before being removed and put into barrels as ACM containing products for safety. Shower unit will be available on site for decontamination when required.

4. LABELING PROCEDURES:

Provide warning signs at each entrance to work area reading as follows:

Legend	Notation
DANGER ASBESTOS AREA CANCER AND LUNG DISEASE HAZARD	3 inch (77mm) Sans Serif Gothic or Block
Authorized Personnel Only	1 inch (25.4 mm) Sans Serif Gothic or Block
respirators and protective clothing	1 inch (25.4 mm) Sans Serif Gothic or Block
are required in this area	1 inch (25.4 mm) Sans Serif Gothic or Block
Breathing Asbestos Dust May Be Hazardous To Your Health	14 point Gothic

MATERIALS:

a. Disposal bags: Provide 6 mil (0.15mm) thick lead-tight polyethylene bags labeled with three labels with text as follows:

1. First label: Provide in accordance with 29 CFR 1910.1200(f) of OSHA's hazard communication standard:

DANGER
CONTAINS ASBESTOS FIBERS
CANCER AND LUNG DISEASE HAZARD
BREATHING AIRBORNE FIBERS IS
HAZARDOUS TO YOUR HEALTH

2. Second label: Provide in accordance with U.S. Department of Transportation regulation on hazardous waste marking. 49 CFR parts 171 and 172. Hazardous Substances.

RQ-ASBESTOS WASTE
CLASS 9
NA2212-PG III

3. Third label: Provide the name of the waste generator (Owner's name), the location from which the waste was generated and the names and addresses of the contractor and transporter. This label must be durable, able to repel dirt and moisture (e.g., permanent marker). Label must be placed directly on disposal bag(s) in al legible format.

5. DESCRIPTION OF PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING TO BE WORN BY EMPLOYEES:

All workers will wear a zippered coverall either polyethylene or tyvex with hood and boots attached. Footwear will consist of steel toe boots. Safety glasses with side shields, or full face negative pressure respirators, hard hat, with four point suspension. Gloves will be provided either rubber, leather or cloth. The respirators will be North brand ½ face with HEPA filters NIOSH approved, or full face negative pressure North Brand, or MSA or other approved respirator per 29 CFR 1910.134 and OSHA requirements.

6. DESCRIPTION OF THE LOCAL EXHAUST SYSTEM VENTILATION SYSTEMS TO BE USED:

Provide a local exhaust ventilation systems that comply with ANSI Z9.2
All HEPA fans used will comply. The HEPA fan, 2000 cfm rated, with variable speed for air flow control will be attached to area's and exhausted outside if feasible.
The negative air HEPA fan will be used in area to assist in engineering controls and safety of area around the asbestos containment.

7. DESCRIPTION OF WORK PRACTICES TO BE OBSERVED BY EMPLOYEES:

Building # 123 phase I , is considered Class II nonfriable ACM except for the piping which is outside the building this will be removed as friable with glove bag method per Colorado Regulation NO 8. Procedures. This project involves training received from requirements in 29 CFR 1926.1910, 29 CFR 1926.1101 and 29 CFR 1910.134. AHERA training and State of Colorado Regulation No. 8. which covers the handling and removal of asbestos. This also includes Hazard Communication training, and any additional training required by Rocky Flats.

A. The following procedures are for nonfriable asbestos, floor tile, transite shelves, and hoods. A.F.I.C. will shut down and seal all vents in the work areas, one layer of 6-mill polyethylene, "criticall's" on door ways or openings, two layers of poly on vents. Engineering controls consisting of HEPA fans and HEPA vacuums, negative air will be established in the work area with exhaust to the outside where feasible.

All work will be accomplished using wet method, hand scrapers on floor tiles, and hand tools on transite hoods, shelves and transite walls.

The above procedures will be used for items; 1a, 2a, 3a, 4a, and & 9a.

B. Glove bag method; The area affected by this work is 5a. the outside steam condensate line. A.F.I.C. will put a drop cloth under the piping to be removed, and use required PPE. The regulated work will have barrier guard warning tape at 10' perimeter around base of scaffold. Negative air HEPA vacuums will be used, and glove bag method per Colorado Regulation No. 8 will be followed.

C. The area affected by this procedure is 6a. the HVAC unit on the roof. See Class II.

D. The area affected by this is 8a. the non asbestos carpeting. A.F.I.C. will put personnel in suits and respirators for asbestos, (nonfriable procedures) in the event that when the carpet is removed tiles may stick to carpet. If the asbestos containing flooring sticks to carpet procedures of item A. will be used to remove the carpeting.

E. The area affected by this is 10a. nonfriable Cementitous panels on the outside of building. This work will not require a secondary or negative air as it is outside and only wet methods are required for removal, with required PPE.

A shower unit is required to be available on site for the above mentioned work, A.F.I.C. will put a shower unit inside the building, as close to center as possible for accessibility from all location's in the building. See attached sketch. As an alternate, if schedule allows, the mobil decon unit will be used for shower on site for Class II work. See Class I asbestos plan for shower location and information.

RAD II WORK IN THE ABOVE MENTIONED AREAS:

1] Floor tiles in rooms 109 and 109b approximately 375 s/f.
2] Floor tile, mastic and carpet in rooms 106 and 123a.
3] Floor tile and mastic in room 105 approximately 185 s/f.
4] The cementitous cabinet linings in rooms 103,105,125,127 and cementitous panel boards in the hoods in rooms 125,127, and 157.
All workers to be trained per RFETS. All procedures per RFETS. All disposal per RFETS requirements, see Safety and Health plan.

8. SPECIFIC TYPE OF REMOVAL METHODS TO BE USED IN THE AFFECTED BUILDING TO REMOVE THE ASBESTOS CONTAINING MATERIAL.

See: Item no. 7.
See: Item no. 5.

9. DESCRIPTION OF THE SEALANT TO BE USED AT THE END OF THE PROJECT.

A.F.I.C. uses EN-100 lockdown encapsulant made by ENVIROCOAT it is clear and non toxic, dries to touch in two (2) hours and has no flash point.
See attached MSDS sheet.

10. AIR MONITORING PLANS:

See attached information from Phase con Environmental Services Inc.

11. LOCATION OF THE BARRIERS AND TYPES OF MATERIALS:

The barriers for all secondary's will consist of existing walls and ceilings. Any doors or open penetrations in area will be sealed with one layer of 6-mill poly. HVAC will be sealed with 2 layers of 6-mill poly. Any secondary containment requiring additional support will use 2 x 4 wood. All poly will be adhered with high quality (357 Nashaua) duct tape, and staples as required. Locations of work are shown on the attached building sketch.

12. HYGINE FACILITY LAYOUT:

Building # 123 Phase I and Phase III work this asbestos work will have a shower unit located the most central area to work in building, as close to center as possible for accessibility from all location's in the building. See attached sketch of shower unit. As an alternate, if schedule allows, the mobil decon unit will be used for shower on site for Class II work. See Class I asbestos plan for shower location and information.

13. VENTILATION SYSTEM LAYOUT AND CONTROL AREAS:

A.F.I.C. will use HEPA filtered negative air machines in work area. See item # 6. The HEPA fans will be placed in each work area to provide additional engineering control of asbestos abatement, and exhaust will be to outside where feasible. HEPA vacuums will be used in all areas.

14. EMERGENCY EXITS FOR THE REGULATED WORK AREA (USE OF FLOOR PLANS OR DIAGRAMS IS RECOMMENDED):

Project personnel will be advised of exit locations at start of project and at the daily safety meetings. See attached sketch of work area for exit door locations. In the event of a extreme emergency, personnel will use windows, which are located throughout the building to exit the building.

15. THE SCHEDULE FOR THE ENTIRE ASBESTOS ABATEMENT PROJECT:

Scheduled time frame is approximately seventy days not allowing for additional changes to contract. Start date is contingent on other phases of work.

15. THE SCHEDULE FOR THE ENTIRE ASBESTOS ABATEMENT PROJECT:
Scheduled time frame is approximately seventy days not allowing for additional changes to contract. Start date is contingent on other phases of work.

16. WASTE HANDLING PLAN:
Section 01610 material handling and waste disposal
01611 requirements will be followed.
A.F.I.C. will keep all asbestos containing materials wet, put in double 6-mill asbestos marked polyethylene bags taken to roll off unit provided by RFETS. The unit will be lined with one layer of six mill poly for transport. The asbestos will be transported from building by way of hand carts to the asbestos dumptster located as close to building as feasible.
Roll-off's will have either a 20 cubic yard or 30 cubic yard capacity. Provided by RFETS.
All personnel handling transport of asbestos bags will be required to wear full body protective clothing, and a minimum of ½ mask respirators with required asbestos filters.
See item 4. For labeling procedures for asbestos.

RADIOLOGICALLY CONTAMINATED WASTE (LOW LEVEL WASTE):
Low level wastes are those with 100nCi/gram alpha-emitting transuranic nuclides.

The subcontractor shall package low level asbestos waste separately from low level non-asbestos waste.
All low level waste shall be size reduced to fit into 2'x4'x7' wooden crates (a standard waste box). The subcontractor shall pack waste crates so that there is less than 10% void space, and so that the gross weight does not exceed 4,500 pounds.

All workers shall be trained per RFETS and all work procedures shall be in compliance with RFETS.

Rocky Flats Building # 123

Phase I

Denotes triple flap

Green denotes 2-layers of 6-mill poly on walls ceiling and floors.

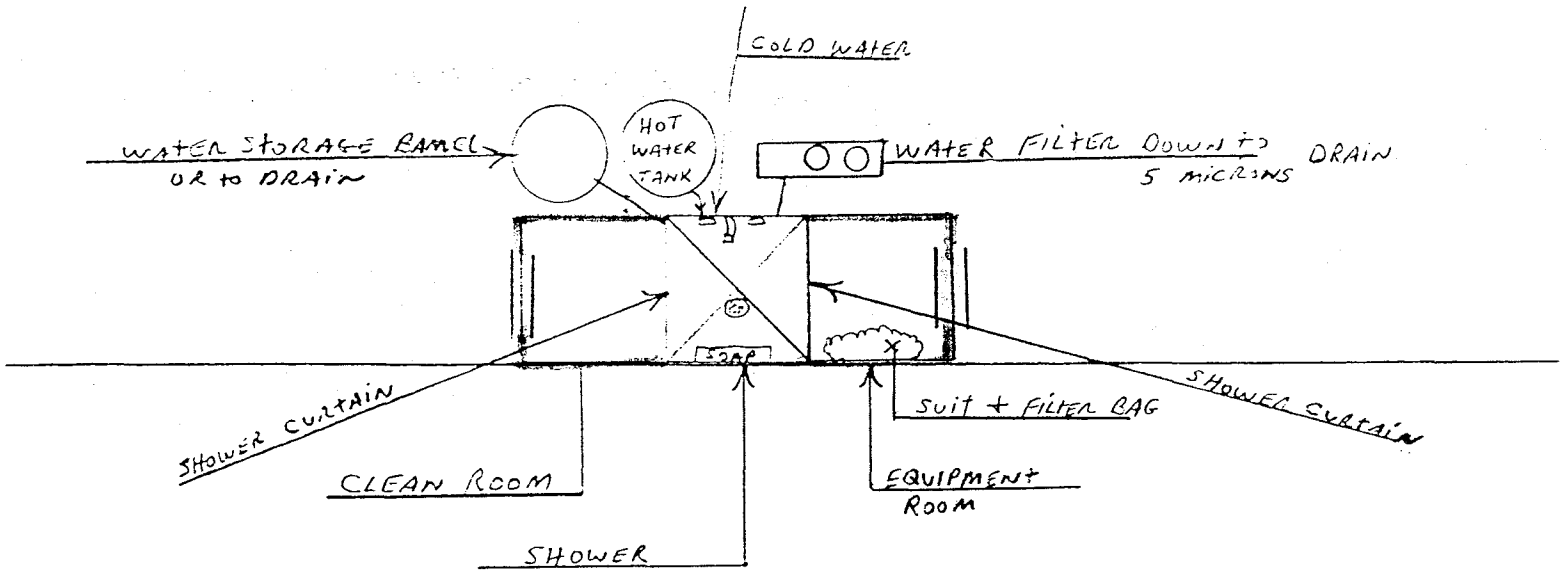
All power to GFCI's

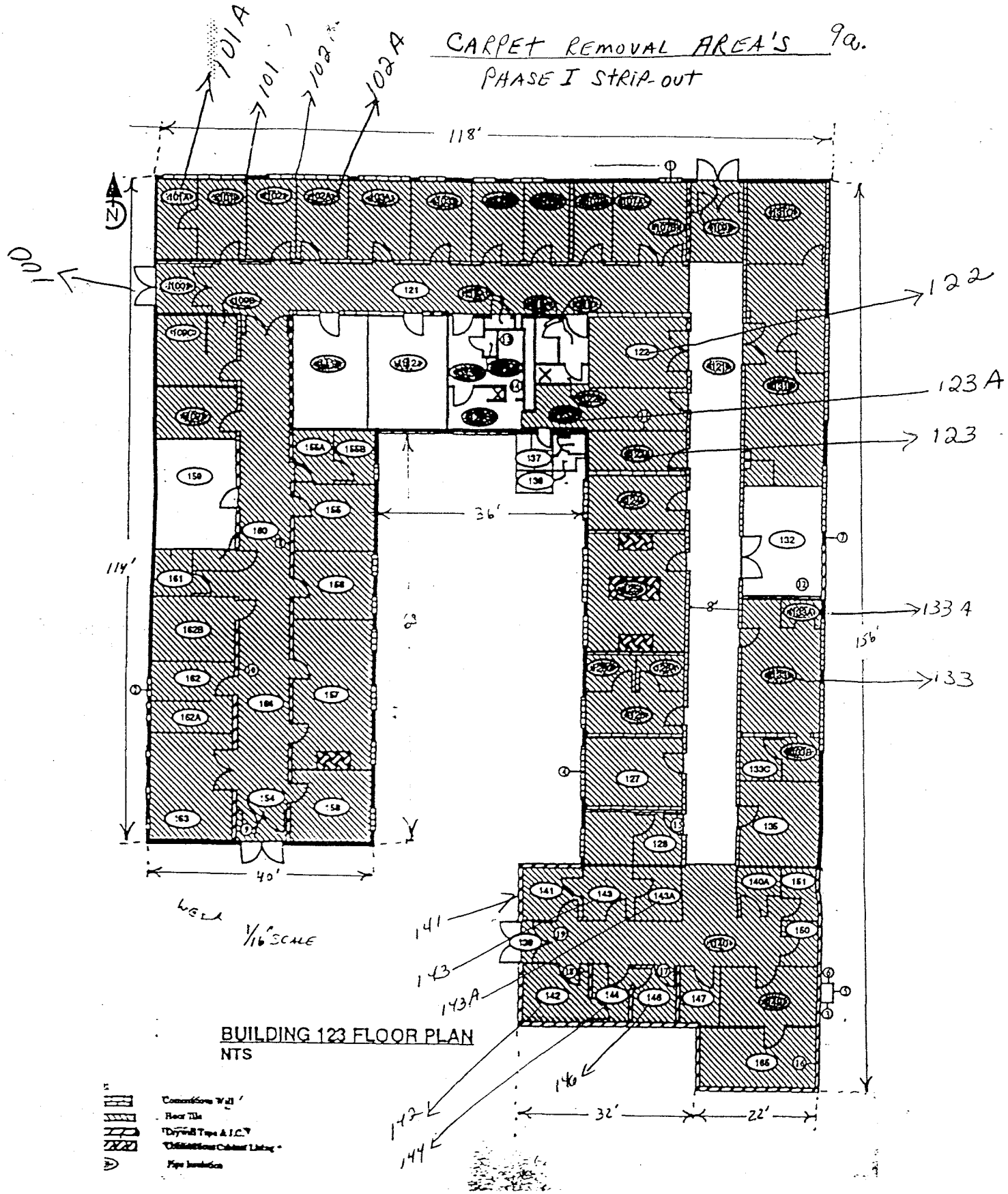
All procedures per OSHA and Colorado Regulation No.8.

SHOWER UNIT

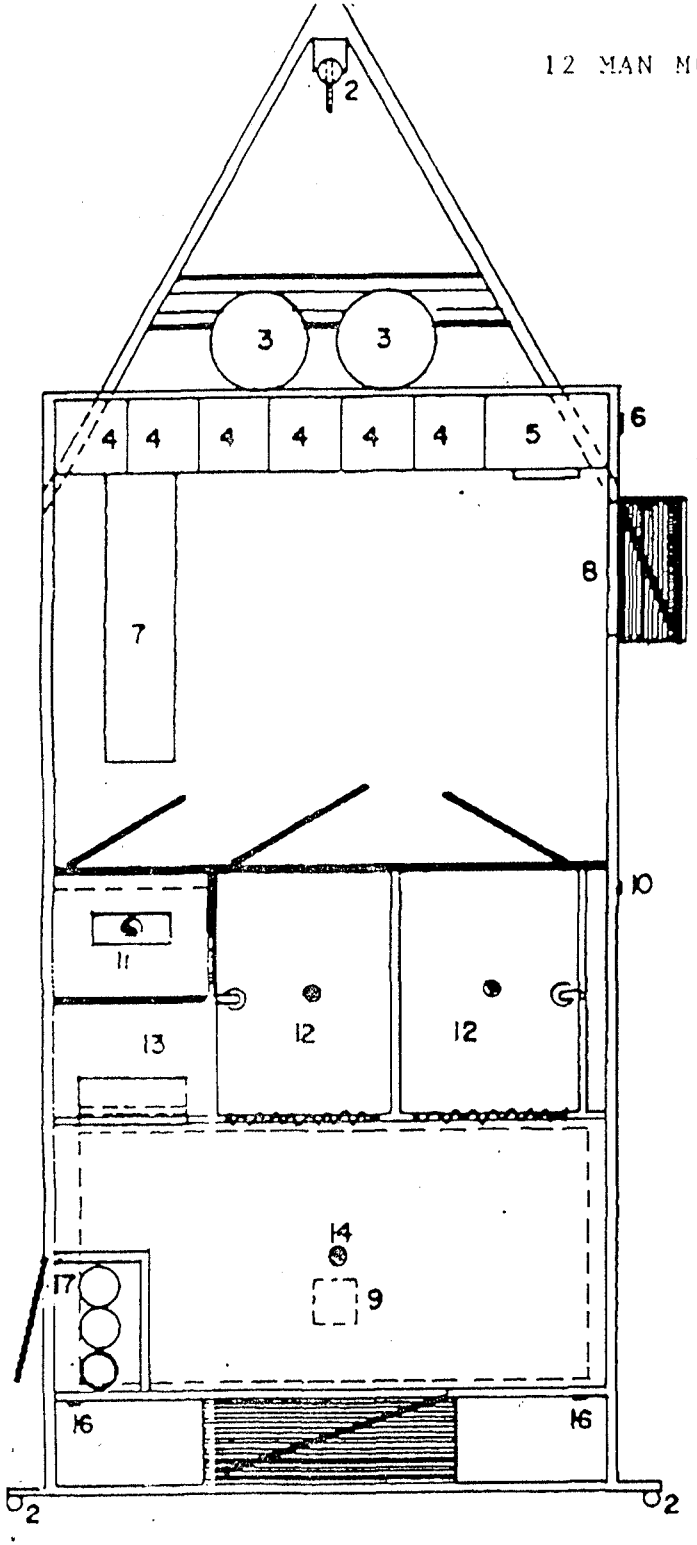
NO SCALE

TOP VIEW




CARPET REMOVAL AREA'S 9a.
PHASE I STRIP-OUT
101A
101
102
102A
118'
N
101
122
123A
123
133A
133
36'
114'
156'
40'
1/16" SCALE
141
143
143A
142
144
146
147
148
32'
22'
BUILDING 123 FLOOR PLAN
NTS

12 MAN MOBILE DECON UNIT



MOBILE SAFETY EQUIPMENT

1602 SERIES

1. 2 " BALL HITCH
2. STABILIZER JACKS, (5)
3. (2) TWO PROPANE TANKS 30#
4. (12) LOCKERS
5. WORK PANEL WITH ELECTRIC HEATER.
6. ELECTRICAL HOOK-UP 110VAC.
7. DRESSING BENCH.
8. ENTRANCE DOOR TO CLEAN SIDE W/ WINDOW.
9. 14 X 14 ROOF VENT.
10. WATER HOOK-UP.
11. HOT WATER HEATER. DEMAND PALOMA PH12
12. SHOWERS (2)
13. NEG AIR FAN WITH PRE FILTER. PRE FILTER.
14. FLOOR DRAIN ON DIRTY SIDE FOR WASH DOWN.
15. TWO STAGE FILTER FOR WASTE WATER.
16. 2 X 4 REDWOOD NAILER STRIP

THE 1602 Series standard features are:

Approx. 20'6" long, 200 # tongue weight.

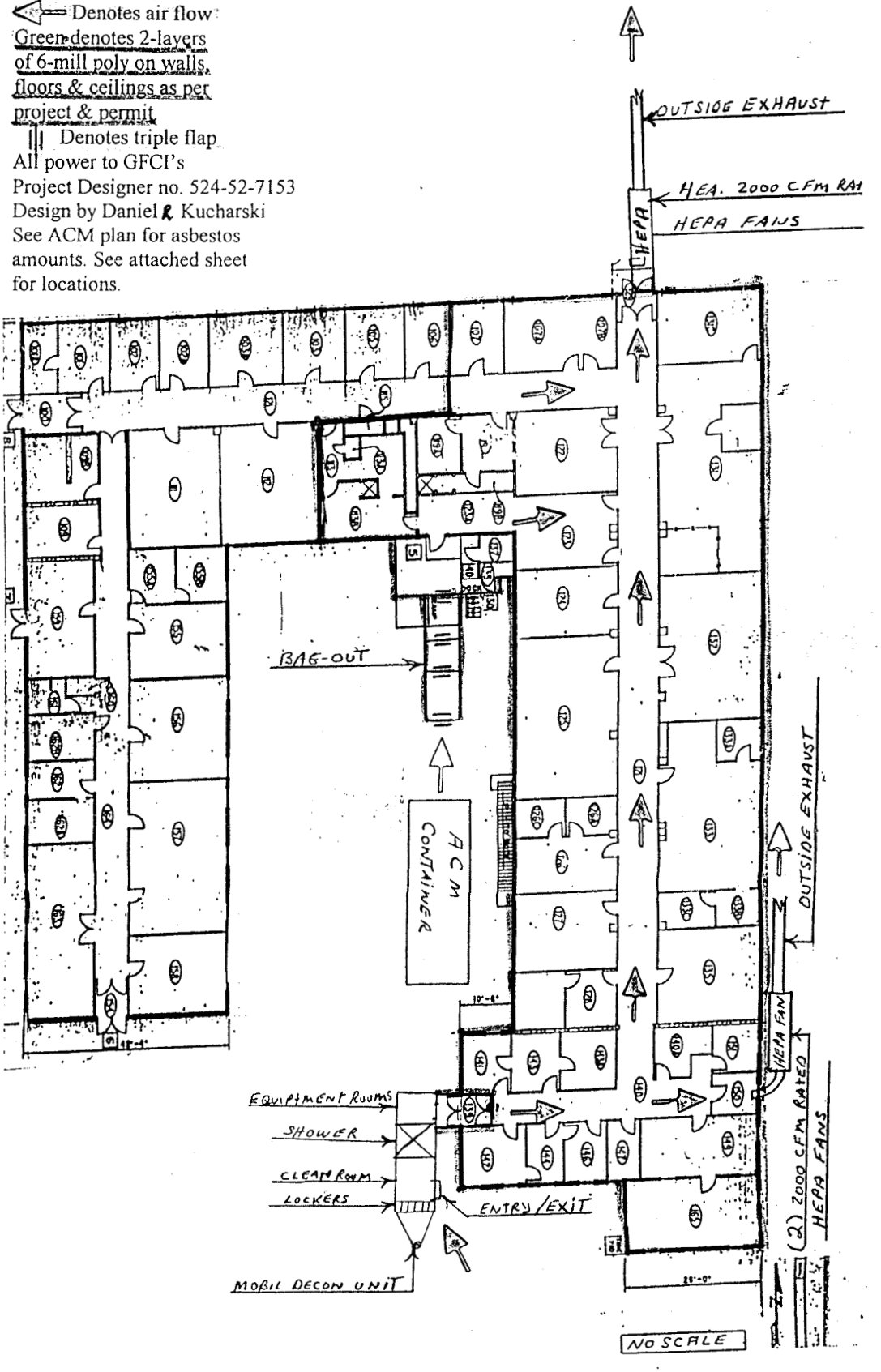
3200# total. Two.5200# axels with electric brakes

150 Gallon waste water holding tank, 20 guage galv. undercoated against corrosion.

Kem-light under flooring with Armstrong non slip floor covering.

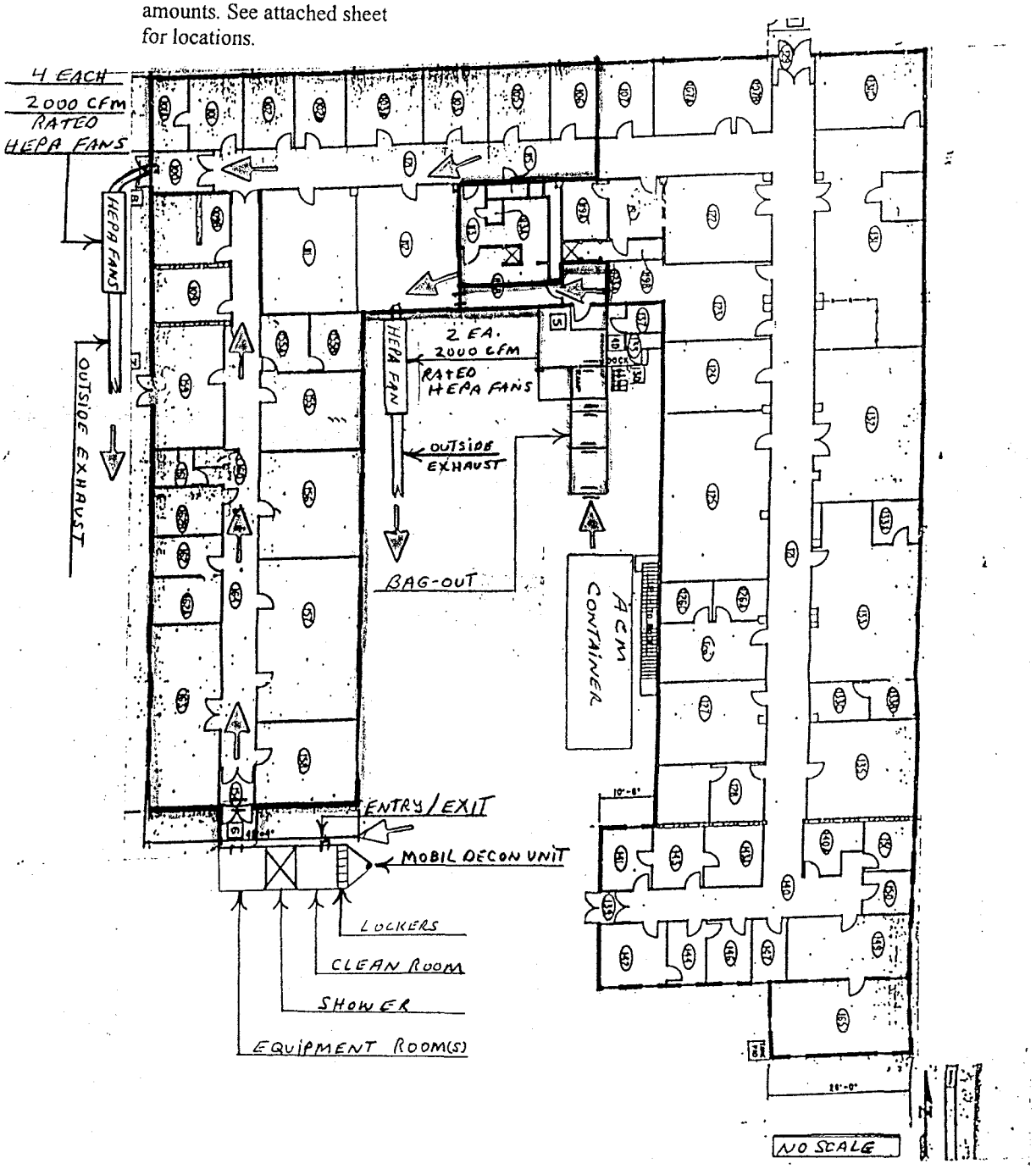
BLDG. # 123
EAST

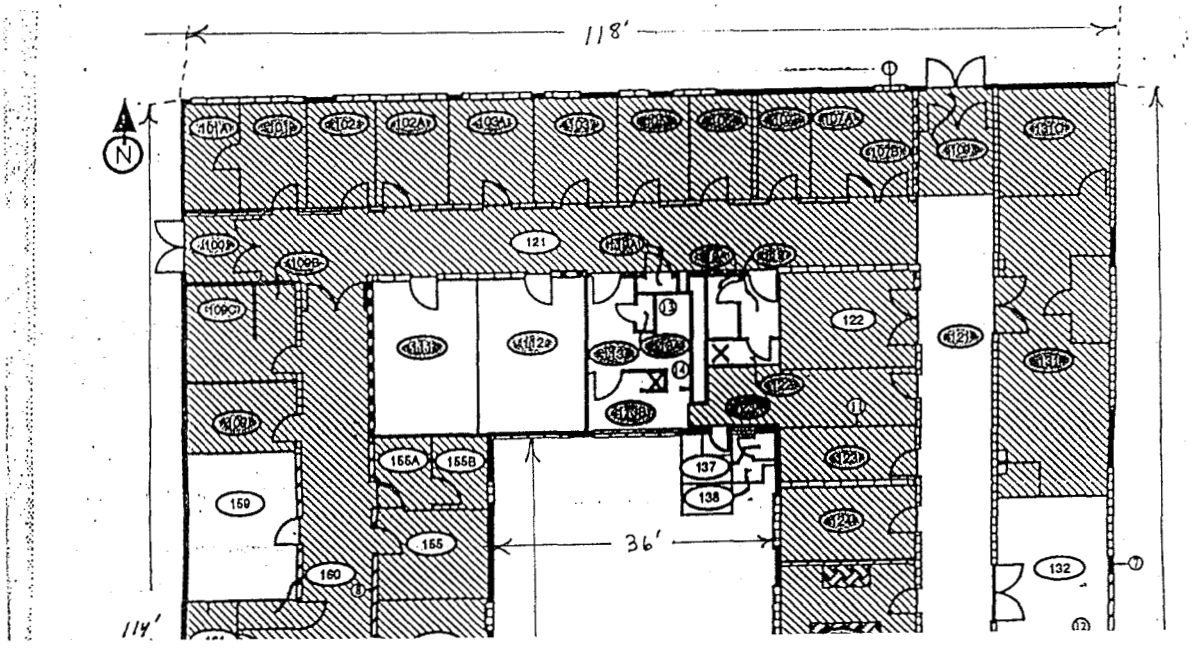
Rocky Flats Bldg. # 123
Denotes air flow
Green denotes 2-layers of 6-mill poly on walls, floors & ceilings as per project & permit
Denotes triple flap
All power to GFCI's
Project Designer no. 524-52-7153
Design by Daniel R. Kucharski
See ACM plan for asbestos amounts. See attached sheet for locations.

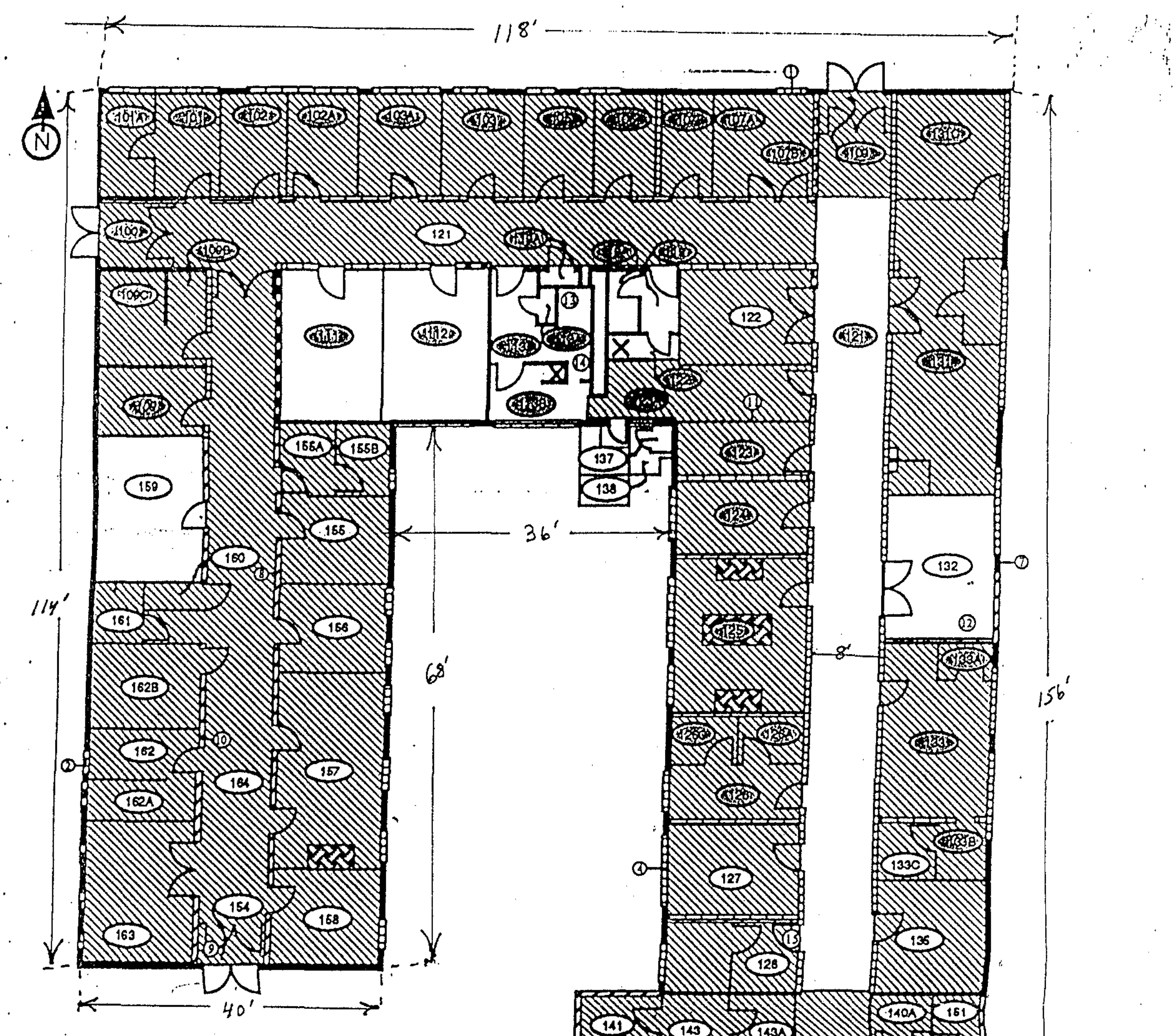


BLDG # 123
WEST

Rocky Flats Bldg. # 123
Denotes air flow
Green denotes 2-layers of 6-mill poly on walls, floors & ceilings as per project & permit.
Denotes triple flap
All power to GFCI's
Project Designer no. 524-52-7153
Design by Daniel R. Kucharski
See ACM plan for asbestos amounts. See attached sheet for locations.




118'
114'
36'
N
121
122
155A
155B
159
155
160
137
138
132



ASBESTOS LOCATIONS + TYPES

APPROXIMATE: 19,000 S/F

SEE ACM PLAN FOR ASBESTOS AMOUNTS

BUILDING 123 FLOOR PLAN
NTS

REFERENCE ONLY
NO-SCALE

LEGEND:
- Cementitious Wall
- Floor Tile
- Drywall Tape & J.C.
- Cementitious Cabinet Lining
- Pipe Insulation

BULK SAMPLE DATA TABLE

Item No.	Sample No.	Sample Description and Location	Lab Result PLM (PC)
1	123-970408-MS-001	Exterior surfacing, texture, rough beige	ND
2	123-970408-MS-002	Exterior surfacing, texture, rough beige	ND
3	123-970408-MS-003	Exterior surfacing, texture, rough beige	ND
4	123-970408-MS-004	Exterior surfacing, texture, rough beige	ND
5	123-970408-MS-005	Exterior surfacing, texture, rough beige	ND
6	123-970408-MS-006	Exterior surfacing, texture, rough beige	ND
7	123-970408-MS-007	Exterior surfacing, texture, rough beige	ND
8	123-970408-MS-008	Drywall, tape, and Joint compound	C: (1.5%)
9	123-970408-MS-009	Drywall, tape, and Joint compound	C: (0.5%)
10	123-970408-MS-010	Drywall, tape, and Joint compound	ND
11	123-970408-MS-011	Drywall, tape, and Joint compound	ND
12	123-970408-MS-012	TSI vapor barrier mastic	ND
13	123-970408-MS-013	Ceiling plaster with rough texture	ND
14	123-970408-MS-014	Ceiling plaster with rough texture	ND
15	123-970408-MS-015	Wall board, 2' x 7' panel with narrow metal joints	B: 20%
16	123-970408-MS-016	Drywall, tape, and joint compound	C: (2.3%)
17	123-970408-MS-017	Drywall, tape, and joint compound	ND
18	123-970408-MS-018	Drywall, tape, and joint compound	ND
19	123-970408-MS-019	Wall board with 1" metal joints	ND
20	123-970422-MS-020	Built up roofing	ND
21	123-970422-MS-021	Built up roofing	ND
22	123-970422-MS-022	Built up roofing	ND
23	123-970422-MS-023	Built up roofing	ND
24	123-970422-MS-024	Insulation on duct on roof, black paper	A: 40%